

# MeSSa 2010 - CALL FOR PAPERS

---

1st International Workshop on Measurability of Security in Software Architectures

<http://www.vtt.fi/sites/messa2010/>

Copenhagen, Denmark, August 23, 2010

Co-located with: The 4th European Conference on Software Architecture (ECSA 2010)

## TOPICS

The growing complexity of service-centric systems has increased the need for pertinent and reliable software security and trusted system solutions. Systematic approaches to measuring security in software architectures are needed in order to obtain sufficient and credible proactive evidence of the security level or performance of a system, service or product. The systematic definition of security metrics and security assurance metrics is a young field that still lacks widely accepted definitions of metrics and applicable measuring techniques for design-time and run-time security monitoring.

The workshop will provide a forum for dissemination, demonstration and discussion of original scientific and experimental results of security measurement topics.

MeSSa 2010 solicits contributions on the following issues (but not limited to):

- Security, trust and privacy metrics
- Security assurance metrics
- Security, trust and privacy measurement systems and associated data gathering
- Metrics for adaptive security systems
- Taxonomical and ontological research on security metrics
- Experimental results from security measurements
- Security measurability-increasing mechanisms for software architectures
- The relationship and differences between security metrics and security assurance metrics
- Tradeoff analysis and decision-making at design-time and at run-time

## PUBLICATION OF THE PROCEEDINGS

The workshop paper will be published in a second volume of the ECSA 2010 conference proceedings with an ISBN number and through ACM digital library (approval pending). At least one author of all accepted papers must present the paper at the workshop.

## IMPORTANT DATES

Submission of papers: May 17, 2010

Author notification: June 7, 2010

Submission of camera-ready paper: July 1, 2010

## SUBMISSION

Authors should submit a workshop paper no longer than eight pages. A double-blind review process will be carried out to all submitted regular papers.

The authors should use the ACM template for the paper. The first page of the submitted paper should contain the paper title, author names, affiliations and contact information (this page is not counted to the total number of pages). The second page should start with paper title, without author information. The paper should be supplied in MS Word or PDF format to [messa2010@vtt.fi](mailto:messa2010@vtt.fi)<sup>2</sup>.

## WORKSHOP CO-CHAIRS

Reijo Savola, VTT Technical Research Centre of Finland (Finland)

---

2. <mailto:messa2010@vtt.fi>

Teemu Kanstrén, VTT Technical Research Centre of Finland (Finland)

Antti Evesti, VTT Technical Research Centre of Finland (Finland)

## **PROGRAM COMMITTEE**

Habtamu Abie, Norwegian Computing Center (Norway)

Nadya Bartol, Booz Allen Hamilton (USA)

John Bigham, Queen Mary University of London (UK)

Christophe Blad, Oppida (France)

Jim Clarke, Waterford Institute of Technology (Ireland)

Marijke Coetzee, University of Johannesburg (South Africa)

Michel Cukier, University of Maryland (USA)

Giorgio da Bormida, ELGI (Italy)

Ilesh Dattani, Q-Sphere (UK)

Samuel Dubus, Alcatel-Lucent (France)

Sammy Haddad, ENST (France)

Thomas Heyman, Katholieke Universiteit Leuven (Belgium)

Zoltan Hornák, SEARCH-LAB (Hungary)

Siv-Hilde Houmb, Telenor (Norway)

Erland Jonsson, Chalmers University of Technology (Sweden)

Louis Marinos, European Network and Information Security Agency (Greece)

Alik Ott, Nokia Siemens Networks (Finland)

Moussa Ouedraogo, CRP Henri Tudor (Luxembourg)

Eila Ovaska, VTT Technical Research Centre of Finland (Finland)

Tanir Ozcelebi, Technical University of Eindhoven (the Netherlands)

Aljosa Pasic, ATOS Origin (Spain)

Christophe Ponchel, EADS (France)

Michel Riguide, ENST (France)

Domenico Rotondi, TXT e-solutions SpA (Italy)

Juha Röning, University of Oulu (Finland)

Pedro Soria Rodriguez, ATOS Origin (Spain)

Riccardo Scandariato, Katholieke Universiteit Leuven (Belgium)

Ari Takanen, Codenomicon (Finland)

Alessandra Toninelli, University of Bologna (Italy)

Hein Venter, University of Pretoria (South Africa)

Antti Vähä-Sipilä, Nokia (Finland)

## **ORGANIZING PROJECTS**

GEMOM (Genetic Message Oriented Secure Middleware) is an EU FP7 ICT project (2008–2010) that focuses on significant and measurable increases in the end-to-end intelligence, security and resilience of complex distributed information systems. The GEMOM project has prototyped a security monitoring system

that utilises security metrics and has developed novel approaches for security metrics development. The prototypes are currently being validated in five case studies – a collaborative business portal, a dynamic linked exchange, a financial market data delivery system, a dynamic road management system and a banking scenario.

BUGYO Beyond (Building Security Assurance in Open Infrastructures, Beyond) is a CELTIC Eureka project (2008–2011) that focuses on extending the security assurance metrics work performed in the BUGYO CELTIC project. Its aims are: (i) to cover areas such as self-developed metrics, patterns of metrics and modelling support, (ii) to provide means for comparing and exchanging assurance information between different operators, including the normalisation and standardisation of assurance measures and aggregated levels, and (iii) to cope with dynamics and mobility by addressing issues that emerge from evolving and ubiquitous infrastructure.

SOFIA (Smart Objects For Intelligent Applications) is an ARTEMIS project (2009–2011) that focuses on the information interoperability of physical spaces and the ontology-driven development of smart space applications. One of the key drivers in the development of smart spaces and smart space applications is information security and its run-time management in changing situations. The first prototyped solutions of the run-time security management suggest that a common and widely accepted security metrics ontology could be developed as a joint effort between European research projects.

The above-mentioned projects will offer demonstrations of security measurements in the workshop.